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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10,006,547	12/04.2001		Shigetoshi Abe	ABE ET AL-2 2636		
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WILLIAM C COLLARD &			EXAMINER			
1077 NORTH	ERN BOULEV	ARD		ALCALA, JOSE H ART UNIT PAPER NUMBER		
ROSLYN, NY	11576					
				2827	TATIA NEMBER	
				DATE MAILED: 05 06/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Application No.	Applicant(s)					
Office Action	n Summary	10/006,547	ABE ET AL.					
Canada Ca		Examiner	Art Unit					
The MAILING DAT	E of this communication	Jose H Alcala	vith the correspondence address					
Period for Reply			the conceptioned data ass					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
	nmunication(s) filed on 0	8 Anril 2003						
<u> </u>								
3) Since this applicat								
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.								
	nim(s) 1 is/are withdrawn							
	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>2 and 3</u> is/	are rejected.							
7) Claim(s) is/a	re objected to.							
8) Claim(s) are	subject to restriction and	I/or election requirement.						
Application Papers								
9) The specification is								
			objected to by the Examiner.					
		the drawing(s) be held in abe						
			disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12)□ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§		examiner.						
		ian nainaitu uudaa 25 H C O	5.440(-) (1) (6)					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
<u> </u>								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
Notice of References Cited (PT 2) Notice of Draftsperson's Paten 3) Information Disclosure Statemers Patent and Trademark Office Patent and Trademark Office	Drawing Review (PTO-948)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of group 2, claims 2-3 in Paper No. 16 is acknowledged.
- 2. Claim 1 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 16.

Drawings

3. The drawings are objected to because figures are improperly crosshatched. All of the parts shown in section, and only those parts, must be crosshatched. The crosshatching patterns should be selected from those shown on page 600-81 of the MPEP based on the material of the part. See also 37 CFR 1.84(h)(3) and MPEP 608.02. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim is unclear, regarding what are the metes and bounds of the claim. The method of making a device is not germane to the issue of patentability of the device, and will not be given patentable weight on the device claims. Those limitations are known as product by process limitations. If the product in the product-by-process claims is the same as or obvious from a product of the prior art, the claims are unpatentable even tough the prior product was made by a different process. See In re Thorpe, 227 USPQ 964,966 (Fed.Cir 1985). A "product by process" claim is directed to the product per se, no matter how actually made, In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear.

Furthermore, no intermediate structure will be given patentable weight, only the final structure of the invention as claimed.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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7. Claims 2 is rejected under 35 U.S.C. 102(2) as being anticipated by Uchikawa et al. (US Patent No. 6,531,661). As best understood by the examiner:

Uchikawa teaches an interlayer connection printed wiring board (reference number 1) including: an insulator substrate (reference numbers 2 and 3) having first and second principal surfaces opposite to each other (reference number 22,30); first (reference number 22a) and second (reference number 30a) metal foils on both sides of said intermediate printed wiring board, and on an inner wall reference number of said through hole (reference number 5B), a corner rounded portion (reference number 6B), and an exposed surface (top of through hole reference number 30a) of said second metal foil exposed through the bottom of said through hole.

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8. Claim 3 is rejected under 35 U.S.C. 102(b) as being anticipated by Petefish (US Patent No. 6,531,661).

Petefish teaches a printed wiring board (reference number 44) including: an insulator substrate (reference number 38) having a first principal surface (top of reference number 38) and a second principal surface (bottom of reference number 38) opposite to said first principal surface; a first metal layer (reference number 42) formed on said second principal surface; said insulator substrate having a through hole (reference number 46) which is formed therein and extends in a direction substantially perpendicular to said first and said second principal surfaces so that a part of a surface of said first metal layer is exposed as an exposed surface through a bottom of said through hole (See figure 7), said printed wiring board comprising a second metal layer (reference number 40) formed on said first principal surface of said insulator substrate, on an inner wall (reference number 48) of said through hole, and on said exposed surface of the first metal layer (See Figure 7).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references teach some of the elements of the instant claimed invention: Shirai et al. (US Patent No. 5,537,740), Shirai et al. (US Patent No. 5,510,580) and Kersuzan et al. (US Patent No. 4,563,543).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose H Alcala whose telephone number is (703) 305-9844. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JHA May 5, 2003

Examiner

GALL JELT